

Tentative Schedule

Date	Day	Time	Topic	Pages Goldstein	HW Set Due
9-Jan	Tue	4:20 - 5:35	Review of Mechanics	1 - 12	
11-Jan	Thu	1:30 - 2:45	Constraints and Lagrange's Equations	12 - 20	
16-Jan	Tue	4:20 - 5:35	Examples	20 - 31	
18-Jan	Thu	4:20 - 5:35	Variational Principles	34 - 51	1
23-Jan	Tue	4:20 - 5:35	Conservation Theorems	55 - 68	
25-Jan	Thu	4:20 - 5:35	Central Force Problem: General	70 - 87	2
30-Jan	Tue	4:20 - 5:35	Central Force Problem: Kepler	92 - 102	
1-Feb	Thu	4:20 - 5:35	Rotations: Matrices and Euler Angles	134 - 154	3
6-Feb	Tue	4:20 - 5:35	Finite and infinitesimal rotations	155 - 171	
8-Feb	Thu	4:20 - 5:35	Vector rotation, Coriolis force	171 - 182	4
13-Feb	Tue	4:20 - 5:35	Angular momentum and Inertia tensor	184 - 198	
15-Feb	Thu	4:20 - 5:35	Rigid Body rotation	198 - 223	5
20-Feb	Tue	4:20 - 5:35	Precession	223 - 234	
22-Feb	Thu	4:20 - 5:35	Oscillations	238 - 243	6
27-Feb	Tue	4:20 - 5:35	Solutions	250 - 256	
1-Mar	Thu	4:20 - 5:35	MIDTERM EXAM		
6-Mar	Tue	No class	<i>Spring Break</i>		
8-Mar	Thu	No class	<i>Spring Break</i>		
13-Mar	Tue	4:20 - 5:35	Hamilton Equations of Motion	334 - 347	MIDTERM EXAM
15-Mar	Thu	4:20 - 5:35	Principle of Least Action	353 - 363	
20-Mar	Tue	4:20 - 5:35	Canonical Transformations	368 - 381	
22-Mar	Thu	4:20 - 5:35	Symmetry and Liouville Theorem	388 - 408	7
27-Mar	Tue	4:20 - 5:35	Poisson Brackets	408 - 424	
29-Mar	Thu	4:20 - 5:35	Selected Topics: Continuum Mechanics	558 - 566	8
3-Apr	Tue	4:20 - 5:35	Special Theory of Relativity	276 - 286	
5-Apr	Thu	4:20 - 5:35	Vectors and Metric	286 - 297	9
10-Apr	Tue	4:20 - 5:35	Forces + Collisions	297 - 309	
12-Apr	Thu	4:20 - 5:35	Lagrangian Formulation	312 - 324	10
17-Apr	Tue	4:20 - 5:35	Relativistic Hamiltonian, E&M	349 - 353	
19-Apr	Thu	4:20 - 5:35	Selected topics: Stress-Energy Tensor	566 - 572	11
24-Apr	Tue	4:20 - 5:35	Review and Summary		PROJECT
26-Apr	Thu	3:45 - 6:45	FINAL EXAM DUE		